

Welcome to the December 2014 issue of the Langford newsletter bringing you news from the Ontario Electrical Industry and Product Updates.

What's On

Watthour Engineering's eighth biennial **We Meet** will be held on March 3 - 5. There will be General Group Sessions as well as specialized hands-on training in small groups of four or fewer students, on software as well as hardware. See [Radian](#)

Ontario News

No Evidence - In early November, Health Canada published findings from the *Wind Turbine Noise and Health Study*. No evidence was found to support a link between exposure to wind turbine noise and any of the self-reported or measured health endpoints examined. However, the study did demonstrate a relationship between increasing levels of wind turbine noise and annoyance towards several features. See [Health](#)

In a connected story related to property values see [Today's Farmer](#)

Laying Blame - Wind and solar contracts are primarily to blame for Ontario's rising power

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DR on the Rise

Product Spotlight! – Arcelormittal Dofasco

Arcelormittal Dofasco recently upgraded the metering system at its 750 acre Hamilton facility where they produce high strength steel. Haneet Randhawa, the project manager, shared the experience at the PLUG Conference in October.

The main drivers of the project

prices, according to a Fraser Institute study. The report details how the province's annual power cost has risen by more than 50 per cent since 2004, while wholesale market prices have been declining. See [Northern Ontario Business](#).

For an analysis of the study see [Windpower](#)

Conservation Incentive Programs - While specific details are still being finalized, the Ministry of Energy has provided clear direction in its "Conservation First" directive regarding the 2015-2020 CDM framework. Applications received by December 31 and up to the launch of new programs will be eligible for existing incentive levels, but projects must be completed in 2015. For details see [Ontario](#)

Capacity Exchange - Ontario and Québec have signed a MOU to exchange electricity capacity. In the Seasonal Capacity Exchange — the first agreement of its kind between the two provinces — Ontario will make 500 MW of electricity capacity available to Québec in the winter, and Québec will make 500 MW available to Ontario in the summer. See [Ontario](#).

More Time - The Joint Review Panel reviewing OPG's nuclear waste repository project north of Kincardine has closed the public record, but said it needs more time to assess the evidence submitted "due to the volume and complexity of the information

were geared to an overall cost reduction and included: eliminate manual meter reading, provide power quality data, provide digital fault recording statistics, and enable demand reduction initiatives to load shed.

Two hundred digital meters were installed: 165 at the 15KV level and 35 at the 600 V level. Meters were retrofitted into existing switchgear cabinets and connected to the plant IT network as well as integrated with PowerLogic ION Enterprise. The challenges Randhawa encountered included legacy issues at the 100 year old plant and limited shutdown windows among others.

After the completion of the project, operators could monitor remotely, improvement teams could perform load studies, power quality and waveform capture was available, and IESO utility bills could be reconciled with ION Revenue meters. For full presentation see [Langford](#).

Did You Know... DR On the Rise

The number of commercial and

received." See [Owen Sound Times](#).

Protecting Power Plants - The Ontario government is again putting forward sweeping powers to protect courts and power generating plants. This marks the third time this kind of legislation has been introduced in the legislature. The difference now is that the Liberals now have a majority. See [Cambridge Times](#)

Plenty of Suitors - While Whitesand First Nation's long-running renewable energy project is still pending final approval from the province, there's no shortage of suitors. In addition to creating power and heat for the community located near Armstrong, the plant will have a pellet mill equipped to produce 60,000 tonnes annually of residential-grade wood pellets, the source of the interest. See [Northern Business](#).

Cobalt-60 - Bruce Power is expected to provide radioactive isotopes used to sterilize medical equipment for years to come. In November it announced that it has signed a multi-year agreement to supply Cobalt-60 to its long-time partner Nordion. See [Bruce](#)

Schneider Electric - Meters for Growth

At the PLUG 2014 Conference in October, Rene Jonker delivered a presentation "A Complete Metering Profile to Boost Growth."

industrial (C&I) demand response sites worldwide is expected to grow from 92,000 in 2014 to more than 1 million in 2023, according to a [new report](#) from Navigant Research.

In recent years, DR in the C&I sector has matured and is now treated in some electricity markets as a resource equivalent to generation, the report explains. The changing resource mix in electric grids globally is creating more opportunities for DR to play a pivotal role in balancing loads and ensuring a reliable supply of electricity, particularly during peak demand episodes.

However, the report says that as DR has taken on a more prominent role, regulators and other market participants are calling for tighter requirements to ensure reliable operations and efficient markets that may place more requirements and risk on DR. See [Navigant](#).

Jonker highlighted the versatility of the Schneider Electric line of meters with each range designed for specific applications and market segments. For example, network management (that uses a more advanced meter such as the ION 7550) has a specific application in industry for process critical applications. Growth is facilitated in this application through reduced downtime and reduced maintenance costs through pro-active maintenance. For the full spectrum of meters and application specific solutions see [Langford](#).

Woodward Smooth Transfers

Woodwards' Digital Transfer Switch Control (DTSC-200) provides control for new ATS (automatic transfer switch) builds or retrofits. It provides bump less transfer of electrical power between utility main to a genset, genset to genset transfer, and utility main to utility main. As a complete measurement and protection package, it easily configures for open, delayed, or closed-transition transfer with synch-check to ensure the smoothest possible transfer. See [Woodward](#).

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